PATENT SPECIFICATION

NO DRAWINGS

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COMPLETE SPECIFICATION

Bleaching and Disinfectant Preparation

We, WALLACE CAMERON & COMPANY LIMITED, a British Company, of 513, Shields Road, Glasgow, S.1., Scotland, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a bleaching and disinfectant preparation.

It has previously been proposed to provide a germicidal preparation comprising a water-soluble metal iodide, and a compound which releases chlorine in the presence of water, e.g. chloramine T, together with one or more subsidiary materials, e.g. an effervescing agent, the properation on addition to water dissolving therein, and the dissolved metal iodide and chlorine-releasing compound reacting to produce a germicidally effective aqueous solution of diatomic iodine and not an aqueous solution of chlorine as in the present invention.

According to the present invention we provide a bleaching and disinfectant preparation comprising a germicidal compound which yields chlorine on contact with water, and an effervescing agent, the preparation on addition to water effervescing and dissolving therein to produce an aqueous solution of chlorine.

Preferably, the germicidal compound is 1:3-dichloro-5:5-dimethylhydantoin.

Preferably, the effervescing agent is a mixture of an acyclic dicarboxylic acid and an 35 alkali bicarbonate.

The preparation may be in tablet form.

The germicidal compound is preferably contained in a water-soluble envelope which may take the form of a compressed coating of the effervescing agent or a sachet of water-soluble

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synthetic resinous material such as polyvinyl alcohol.

In tablet form the preparation preferably contains a binder such as acacia.

Embodiments of the invention will now be 45 described by way of example,

EXAMPLE 1

A bleaching and disinfectant preparation is in tablet form and comprising an inner core of dry powder consisting of a mixture of dimethyldichloro hydrantoin, tartaric acid and sodium bicarbonate. The powder core is enclosed in a coating consisting of a compressed mixture of tartaric acid, sodium bicarbonate and magnesium stearate to form a tablet. The tablet when immersed in water effervesces and liberates chlorine to form a germicidally effective solution of hypochlorite.

The composition of the tablet is as follows:—

Inner core:

1:3-dichloro-5:5-dimethyl hydartoin 135 mg.
Tartaric acid. 200 mg.
Sodium bicarbonate. 200 mg. 65
Coating:—
Tartaric acid. 300 mg.
Sodium bicarbonate. 300 mg.
Magnesium Stearate. 20 mg.

Example 2

A bleaching and disinfectant preparation in tablet form is as Example 1 but with a composition as follows:—

Inner Core:-

1:3-dichloro-5:5-dimethyl	Hydan-	75
toin	135 mgs.	
Sodium bicarbonate	250 mgs.	
Adipic acid	220 mgs.	
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70

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2	1,054,243		
5	Coating:— Sodium bicarbonate Adipic acid Acacia Stearic acid	840 mgs. 900 mgs. 45 mgs. 15 mgs.	wherein the effet tartaric acid and 5. A prepar wherein the effet adipic acid and
10	A bleaching and disinfectar comprises an inner core of draining dimethylchloro hydant ample 1, enclosed in a water-set polyvinyl alcohol. When the immersed in water, the polysachet dissolves and chlorine form a solution of hypochloro. Thus the invention provide and disinfectant preparation compact, dry form and which is into water to form quickly and ing and disinfectant solution.	y powder con- oin, as in Ex- oluble sachet of preparation is lyvinyl alcohol is liberated to ous acid. es a bleaching which is in a s simply thrown	6. A preparathe preceding of 7. A preparaincluding a bin 8. A preparathe preceding of agent is contain 10. A preparathe preceding of agent is contain 11. A preparathe presed coating 11. A preparathe presed mixture wherein the was pressed mixture was pressed mixture.
20	EXAMPLE 4 A bleaching and disinfectant an inner core as in Example 2 water-soluble satchet of polyvin Example 3.	2, enclosed in a	carbonate and : 12. A prepa wherein the wa pressed mixtur bonate, acacia 13. A prepa
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WHAT WE CLAIM IS:-

1. A bleaching and disinfectant preparation comprising a germicidal compound which yields chlorine on contact with water, and an effervescing agent, the preparation on addi-30 tion to water effervescing and dissolving therein to produce an aqueous solution of chlorine.

2. A preparation according to claim 1, wherein the germicidal compound is 1:3-dichloro-5: 5-dimethylhydantoin.

3. A preparation according to claim 1 or 2, wherein the effervescing agent is a mixture of an acyclic dicarboxylic acid and an alkali metal bicarbonate.

4. A preparation according to claim 3,

ervescing agent is a mixture of 40 nd sodium bicarbonate.

ration according to claim 3, ervescing agent is a mixture of d sodium bicarbonate.

ation according to any one of 45 claims, in tablet form.

ration according to claim 6 nding agent.

ration according to claim 7, inding agent is acacia.

ation according to any one of claims, wherein the germicidal ned in a water-soluble envelope. aration according to claim 9,

ater soluble envelope is a comg of the effervescing agent.

aration according to claim 10, ater soluble envelope is a comre of tartaric acid, sodium bimagnesium stearate.

aration according to claim 10, ater-soluble envelope is a comre of adipic acid, sodium carand stearic acid.

paration according to any one 65 of claims 1 to 5 and 9, wherein the envelope is a catchet of a water soluble resinous material.

14. A preparation according to claim 13, wherein the satchet is of polyvinyl alcohol.

15. A bleaching and disinfectant preparation according to any one of Examples 1, 2, 3 or 4.

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